



Interoffice Memo Office of Design Policy & Support

DATE: 1/18/2022

FILE: P.I.# 0016513
Dodge County / GDOT District 2 - Tennille
Bridge Replacement - SR 257 @ Gum Swamp Creek 4.7 Miles SW of Chester.

FROM: *Dane Peters*
for R. Christopher Rudd, PE, State Design Policy Engineer

TO: SEE DISTRIBUTION

SUBJECT: APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

Distribution:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3
Albert Shelby, Director of Program Delivery
Clement Solomon, Director, Division of Intermodal
Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator
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Benny Walden, Statewide Location Bureau Chief
Corbett Reynolds, District Engineer
Todd Price, District Preconstruction Engineer
Jamie Lindsey, District Utilities Manager
Arlen Fisher, Project Manager
BOARD MEMBER - 8th Congressional District



Limited Scope Project Concept Report

* Concept Report update received 12/02/2021

Project Type:	Bridge Replacement	P.I. Number:	0016513
GDOT District:	2	County:	Dodge
Federal Route Number:	NA	State Route Number:	SR 257
Project Number:	NA		

Replacement of SR 257/ Empire Chester Hwy bridge over Gum Swamp Creek between Lister Cemetery Rd and Frank Brown Rd in Dodge County.



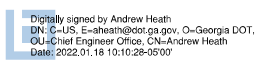
Submitted for approval:

 Atkins North America, Inc.	10/14/2021
Consultant Designer & Firm or GDOT Design Phase Office Head & Office	Date
	10-21-2021
State Program Delivery Administrator	Date
 shp	10/19/2021
GDOT Project Manager	Date

Recommendation for approval: * Recommendations are on file - ING

* Eric Duff	10/27/2021
State Environmental Administrator	Date
* Oladimeji Onabanjo	11/01/2021
for State Traffic Engineer	Date
* Donn Digamon	11/07/2021
State Bridge Engineer	Date
* Todd Price	11/10/2021
for District Engineer	Date
<input type="checkbox"/> MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).	
<input checked="" type="checkbox"/> Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).	
* Matt Markham	11/08/2021
for State Transportation Planning Administrator	Date

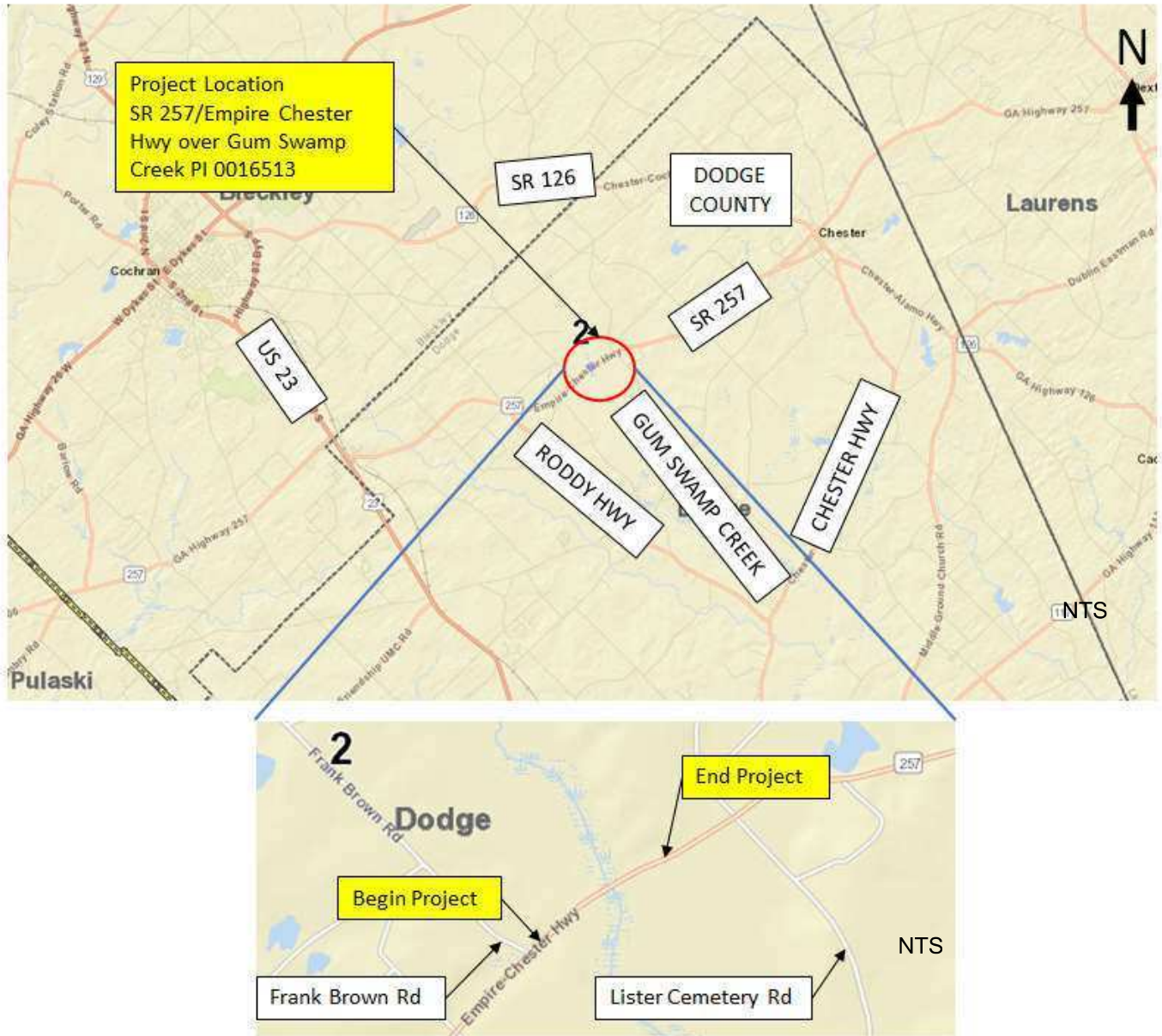
Approval:

Concur: 	1/14/2022
GDOT Director of Engineering	Date
Approve:  	1/18/2022
GDOT Chief Engineer	Date

* Recommendations were also received from the following: - ING

- * Office of Engineering Services: Joshua Taylor (11/09/2021)
- * Office of Utilities: Marcela Coll (10/27/2021)
- * Office of Intermodal: Alan C. Hood (11/08/2021)
- * District 2 Utility Engineer: Jamie Lindsey (10/27/2021)

PROJECT LOCATION MAP



PLANNING & BACKGROUND DATA

Prepared By: Office of Bridges and Structures **Date:** 9/30/2020

Project Justification Statement: The bridge (Structure ID 091-0030-0; SR 257/Empire-Chester Highway over Gum Swamp Creek) was built in 1958. The bridge consists of 14 spans of nine concrete channel beams on reinforced concrete caps and steel piles. The bridge was designed using an H-15 design vehicle and the calculated load carrying capacity is 33.3 percent lower than current standards. The barrier is showing signs of deterioration and is not MASH compliant. There is moderate leakage in the joints throughout the deck and typical spalling of the concrete diaphragms. Heavy deflection cracks are present at the bottom side of each panel. There is spalling in the bottom of beams at the joint between the panels with exposed rebar. There is undermining of pile encasements at bent 8, 10, 11, and 12. The caps have vertical and horizontal cracking throughout the structure. Spalling is present at Bents 2, 3, 4, 5, and 12 and exposed rebar under beams 6 and 9. There is a vertical crack in the face of the cap between beams 4 and 5 at abutment 15. Further deterioration of these components will result in a reduction of the load carry capacity. This bridge is classified as having an unknown foundation and therefore could be at risk for scour. Due to age and condition of the bridge and the load carrying capacity being below current standards, replacement is necessary.

Existing conditions: The existing bridge (Structure ID 091-0030-0) composed of steel and prestressed concrete consists of 14 spans. The bridge is 378-ft long with a deck width of 24.9-ft including two 11-ft wide lanes and no shoulder. Empire Chester Hwy is surrounded mostly by wooded areas and farm land with a functional classification of Rural Major Collector. The project is located approximately 4.7 miles southwest of Chester.

Other projects in the area: None

MPO: N/A - not in an MPO **TIP #:** N/A

Congressional District(s): 8

Federal Oversight: ☐ PoDI ☒ Exempt ☐ State Funded ☐ Other

Projected Traffic: 24 HR T: 17.5 % Current Year (2021): 1275
Open Year (2026): 1350 Design Year (2046): 1675

Traffic Projections Performed by: Atkins North America Inc.

Date approved by the GDOT Office of Planning: July 7, 2021

AASHTO Functional Classification (Mainline): Major Collector

AASHTO Context Classification (Mainline): Rural

AASHTO Project Type (Mainline): Construction on existing roads

Is the project located on a NHS roadway? ☒ No ☐ Yes

Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants:

Warrants met: ☒ None ☐ Bicycle ☐ Pedestrian ☐ Transit

Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project? ☒ No ☐ Yes

Pavement Evaluation and Recommendations

Initial Pavement Evaluation Summary Report Required? ☒ No ☐ Yes

Feasible Pavement Alternatives: ☒ HMA ☐ PCC ☐ HMA & PCC

Is the project located on a Special Roadway or Network? ☒ No ☐ Yes

Do the limits of the project include one or more signalized intersections? ☒ No ☐ Yes

Is Federal Aviation Administration coordination anticipated? ☒ No ☐ Yes

*Any Construction equipment in excess of 200 feet above the roadway elevation must be evaluated by the FAA. Evaluation by filing of "Notice of Proposed Construction" FAA Form 7460-1 must be accomplished not earlier than 18 months and not later than 120 days prior to construction. E-file at <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

DESIGN AND STRUCTURAL

Description of the proposed project: The purpose of this project is to replace GDOT Bridge 091-0030-0 located on State Route 257 over Gum Swamp Creek, approximately 4.7 miles southwest of Chester, GA (Dodge County). The proposed project is approximately 0.3 miles long, beginning 500 feet southwest of the existing bridge abutment and ending 600 feet northeast of the existing bridge abutment. The proposed right-of-way is approximately 140 feet. The proposed bridge will be approximately 380 feet long by 35.08 feet wide consisting of one 12-foot lane in each direction with 4-foot shoulders on both sides. The bridge will be constructed at the current location along the existing roadway centerline and vertical profile utilizing an offsite detour.

Major Structures:

Structure	Existing	Proposed
091-0030-0	The existing structure is 378 feet in length and consists of 14 spans. The overall bridge deck width is 24.9 feet with a horizontal clearance between barriers of 23.7 feet. The lane widths on the bridge are 11 feet with less than 1-foot shoulders.	The proposed structure is approximately 380 feet long by 35.08 feet wide. This includes two 12 foot travel lanes and 4 foot shoulders on both sides of the bridge.

Accelerated Bridge Construction (ABC) techniques anticipated: ☒ No ☐ Yes

SR 257/Empire Chester Hwy over Gum Swamp Creek will not use ABC techniques during construction. The rural location and crossing a river with a bridge of this length does not meet warrants for ABC techniques.

Mainline Design Features:

SR 257/Empire Chester Hwy	Functional Classification: <i>Major Collector</i>		
Feature	Existing	*Policy	Proposed
Typical Section:			
- Number of Through Lanes	2		2
- Lane Width(s) (-ft)	11 to 12 ft	11 to 12 ft	12 ft
- Median Width (-ft) & Type	N/A	N/A	N/A
- Shoulder Width (-ft) (Outside)	Unknown	6 ft (4 ft paved)	6 ft (4 ft paved)
- Border Area Width (-ft)	N/A	N/A	N/A
- Cross Slope (%)	Unknown	2%	2%
- Outside Shoulder Slope (%)	Unknown	6%	6%
- Sidewalks (-ft)	N/A	N/A	N/A
- Auxiliary Lanes (# LTL, RTL or TWLTL / -ft width)	N/A		N/A
- Bike Accommodations	N/A	N/A	N/A
Posted Speed (mph)	55		55
Design Speed (mph)	55	45 or 55	55
Minimum Horizontal Curve Radius (-ft)	2050	960 or 1060	2050
Maximum Superelevation Rate (%)	Unknown	6% or 8%	5.8%
Maximum Grade (%)	Unknown	6% or 7%	6% (TBD)
Access Control	Permit	Permit	Permit
Design Vehicle	H-15		WB-67
Check Vehicle	N/A		WB-67
Pavement Type	Asphalt		Asphalt

*According to current GDOT Design Policy if applicable

Design Exceptions/Design Variances to FHWA or GDOT Controlling Criteria anticipated: None

Design Variances to GDOT Standard Criteria anticipated: None

Lighting Required: ☒ No ☐ Yes

Off-site Detours Anticipated: ☐ No ☐ Undetermined ☒ Yes

If yes: Roadway type to be closed: ☐ Local Road ☒ State Route
 Detour Route selected: ☐ Local Road ☒ State Route
 District Concurrence w/Detour Route: ☐ No/Pending ☒ Received 2021-11-23

Transportation Management Plan [TMP] Required: ☐ No ☒ Yes

If Yes: Project classified as: ☒ Non-Significant
 TMP Components Anticipated: ☒ TTC

INTERCHANGES AND INTERSECTIONS

Interchanges/Major Intersections: N/A

Intersection Control Evaluation (ICE) Required: ☒ No ☐ Yes

Roundabout Concept Validation Required: ☒ No ☐ Yes ☐ Completed *Date*

UTILITY AND PROPERTY

Railroad Involvement: None

Utility Involvements:

Utility Type	Utility Owner
Electric	Ocmulgee EMC
Telecommunications	Progressive Rural Telephone

SUE Required: ☒ No ☐ Yes

Public Interest Determination Policy and Procedure recommended: ☒ No ☐ Yes

Right-of-Way (ROW): Existing width: 100 ft. Proposed width: 140 ft.
Required Right-of-Way anticipated: ☐ None ☒ Yes ☐ Undetermined
Easements anticipated: ☒ None ☐ Temporary ☐ Permanent * ☐ Utility ☐ Other
** Permanent easements include the right to place utilities.*

Anticipated total number of impacted parcels:		4
Displacements anticipated:	Businesses:	0
	Residences:	0
	Other:	0
Total Displacements:		0

Location and Design approval: ☐ Not Required ☒ Required

Impacts to USACE property anticipated: ☒ No ☐ Yes ☐ Undetermined

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document: *NEPA ~ PCE*

Level of Environmental Analysis:

- ☒ The environmental considerations noted below are based on preliminary desktop or screening level environmental analysis and are subject to revision after the completion of resource identification, delineation, and agency concurrence.
- ☐ The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.

MS4 Permit Compliance – Is the project located in a MS4 area? ☒ No ☐ Yes

If yes, is the GDOT MS4 Permit anticipated to apply to all or part of this project? ☒ No ☐ Yes

Is Non-MS4 water quality mitigation anticipated? ☒ No ☐ Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated: The proposed project would require a Section 404 Permit and Buffer Variance if construction were to impact Gum Swamp Creek and its buffer. An NPDES Permit – GAR 100002 will be anticipated.

Air Quality:

Is the project located in an Ozone Non-attainment area? ☒ No ☐ Yes
Is a Carbon Monoxide hotspot analysis required? ☒ No ☐ Yes

NEPA/GEPA Comments & Information:

NEPA: The anticipated environmental document for the proposed project is a Programmatic Categorical Exclusion. Should the project require a transportation use from a nearby Section 4(f) resource, a Section 4(f) Evaluation would be required.

Ecology: Early Coordination with the Georgia Department of Natural Resources and US Fish and Wildlife Service is completed and the ecology resource survey report has been approved. A field survey determined two open waters, a wetland, and habitat for the eastern indigo snake are present. A Section 404 permit could be required if the creek is affected by the replacement of the proposed bridge.

History: The history report is in review. A field survey determined that two properties are considered eligible.

Archaeology: An Archaeology report is being prepared. Two archaeological sites were found during the field survey located in the northeastern portion of the ESB, south of SR 257/Empire Chester Hwy.

Noise: Noise studies have not been prepared. A Type III assessment is anticipated. However, a Type I assessment would be required if the bridge alignment is significantly altered vertically or horizontally.

Public Involvement: Public outreach is anticipated to inform the public about the bridge closure during it's construction and use of an off-site detour. Early detour coordination letters were sent to major stakeholders: Dodge County EMS, local government, and Dodge County schools on July 21st 2020. Dodge county schools and local government have replied in support of the offsite detour and no reply has been received from EMS.

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Constructability/Construction: No known issues are expected to affect the construction of the project.

Project Meetings: Concept Team Meeting held September 15, 2021 on Microsoft Teams

Other coordination to date: Early detour coordination letters were sent to major stakeholders on July 21st 2020. Dodge county school board responded in support of the bridge replacement utilizing an offsite detour on August 18th, 2020. The Dodge County Commissioners office responded via email on Jan 7th, 2021 and are in support of the project utilizing the poroposed detour route.

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Atkins North America Inc.
Design	Atkins North America Inc.
Right-of-Way Acquisition	GDOT Right of Way Office
Utility Coordination (Preconstruction)	GDOT District 2 Utility Office
Utility Relocation (Construction)	Utility Owner
Letting to Contract	GDOT Construction Bidding Administration Office
Construction Supervision	GDOT Construction Office
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	Atkins North America Inc.
Environmental Mitigation	GDOT Environmental Services Office
Construction Inspection & Materials Testing	GDOT Materials and Testing Office

Project Cost Estimate Summary and Funding Responsibilities:						
	PE Activities		ROW ¹	Reimbursable Utilities	CST ²	Total Cost
	PE Funding	Section 404 Mitigation				
Date of Estimate:	2020	7/15/2021	6/21/2021	7/26/2021	11/30/2021	
Funded By:	Federal/State	Federal/State	Federal/State	Federal/State	Federal/State	
Programmed Cost:	\$845,000		\$250,000	\$100,000	\$4,800,000	\$5,995,000
Estimated Cost:	\$845,000	\$144,640	\$107,000	\$110,000	\$4,034,783.78	\$5,241,423.78
Total Cost Difference:						\$753,576.22

- Note: ROW Cost Estimate developed by others.
- CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

Preferred Alternative: Replace bridge on existing alignment utilizing an off-site detour.			
Estimated Property Impacts:	4 Parcels	Estimated Total Cost:	\$5,241,423.78
Estimated ROW Cost:	\$107,000.00	Estimated CST Time:	12 Months
Rationale: This alternative would close the bridge to traffic and provide an off-site detour during construction. The proposed detour would reroute traffic from SR 257/Empire Chester Hwy to SR 126, adding approximately 6.8 miles to the route. Local traffic would have the option to use local paved roads for shorter detour of 5.4 miles. Detour letters were transmitted to Dodge county EMS, Dodge county Schools, and Local government. Dodge county schools and local government are in support of the detour and no response has been received from EMS. A public detour open house will be held to present the detour route.			

No-Build Alternative: Retain the existing bridge.			
Estimated Property Impacts:	None	Estimated Total Cost:	\$0.00
Estimated ROW Cost:	\$0.00	Estimated CST Time:	None
Rationale: This alternative is not preferred because the load carrying capacity of the existing bridge is below current standards, the deterioration of several components, and age.			

Alternative 1: Replace bridge utilizing permanent offset realignment to the southeast of the existing bridge.			
Estimated Property Impacts:	5 Parcels	Estimated Total Cost:	\$6,370,381.04
Estimated ROW Cost:	\$146,000.00	Estimated CST Time:	18 Months
Rationale: Construction on the southeast side of the existing bridge would eliminate the need for a detour. This alternative requires traffic control to maintain traffic on the existing structure while the new bridge is constructed. Shifting the bridge southeast will expand project limits and increase construction costs. More right of way will be required and possible environmental impacts may arise. This alternative would also require a longer construction duration.			

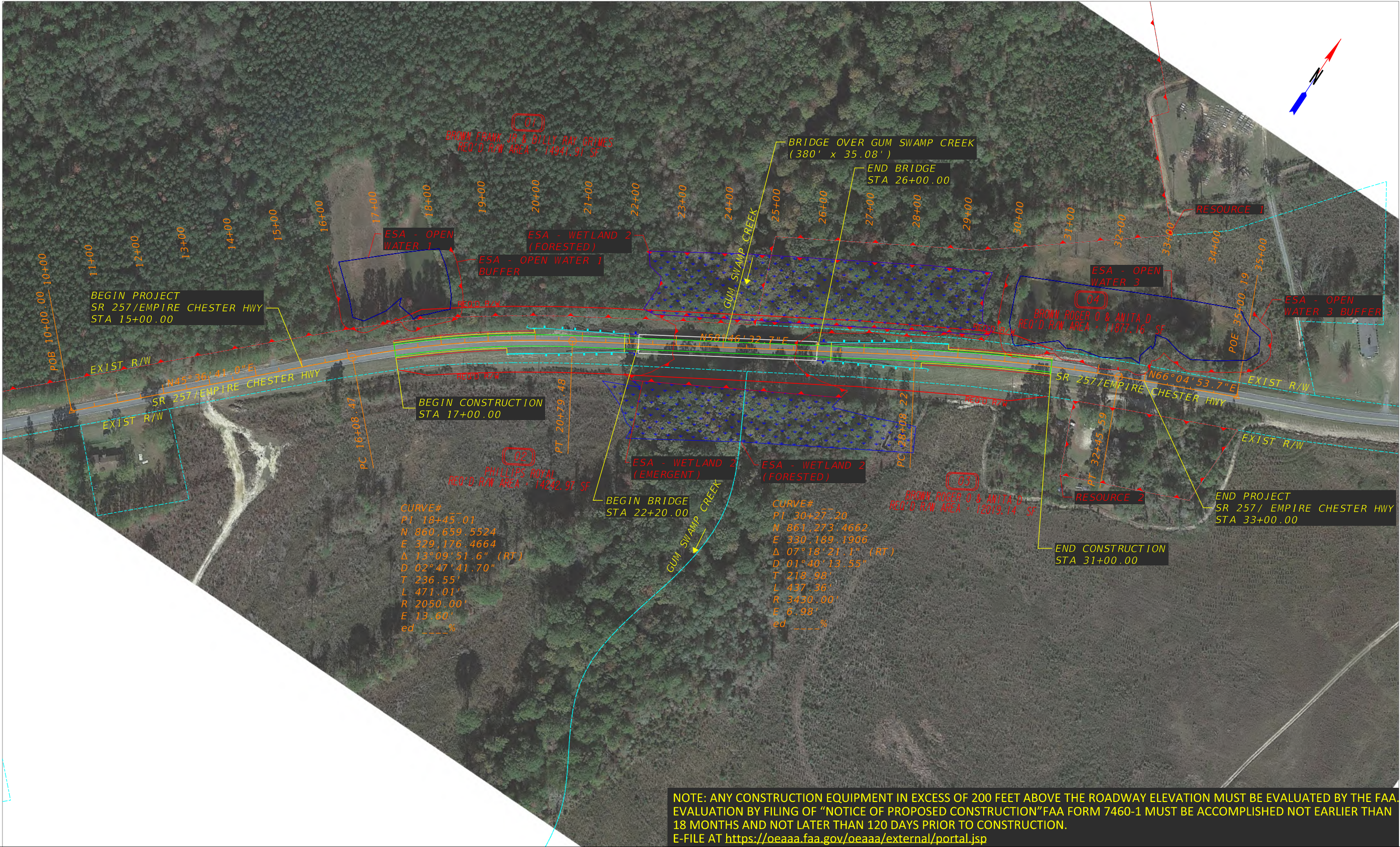
Comments: None

LIST OF ATTACHMENTS/SUPPORTING DATA

1. Concept Layout and Detour Map
2. Typical sections
3. Detailed Cost Estimates:
 - a. Construction Estimate including Engineering and Inspection and Contingencies
 - b. Revisions to Programmed Costs forms, & Liquid AC Cost Adjustment
 - c. Right-of-Way
 - d. Utilities
 - e. Mitigation Cost
4. Concept Utility Report
5. Traffic Memo
6. S I & A Report(s)
7. Minutes – Concept Team Meeting
8. Detour Correspondence

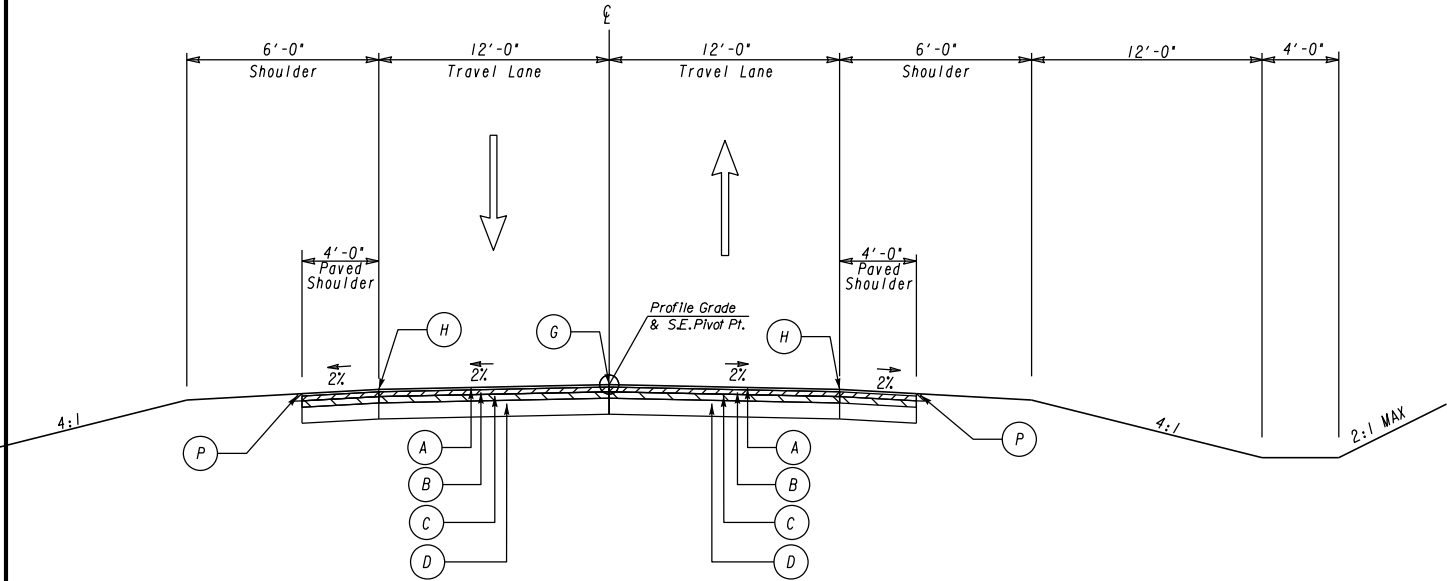
Attachment 1

Concept Layout and Detour Map

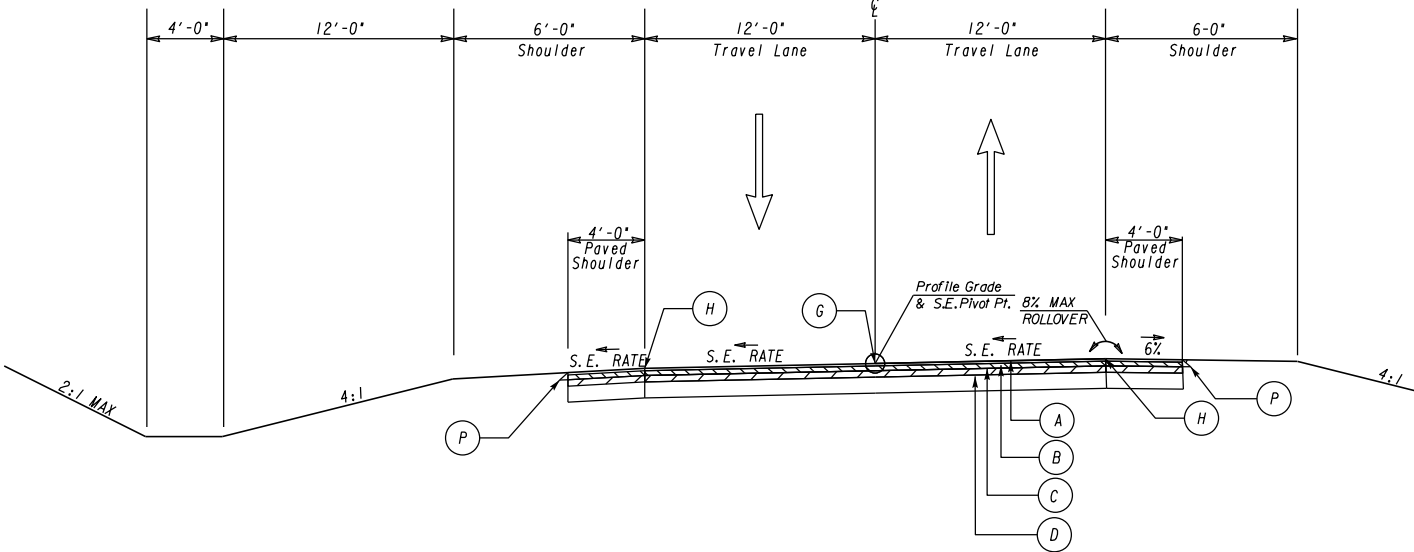


Attachment 2

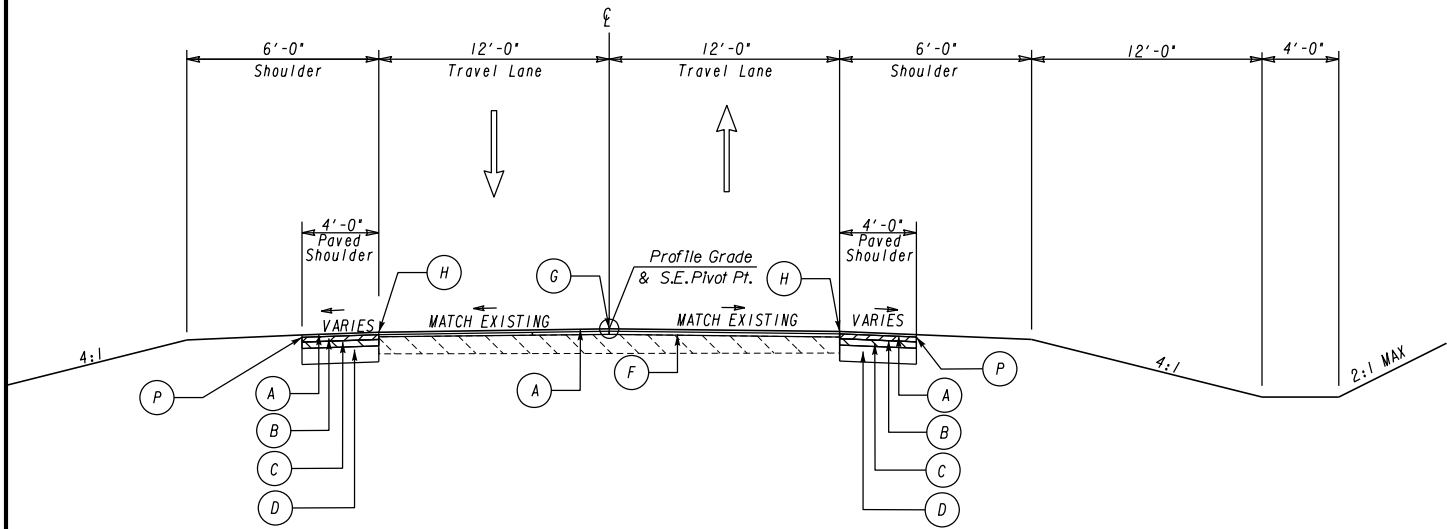
Typical Sections



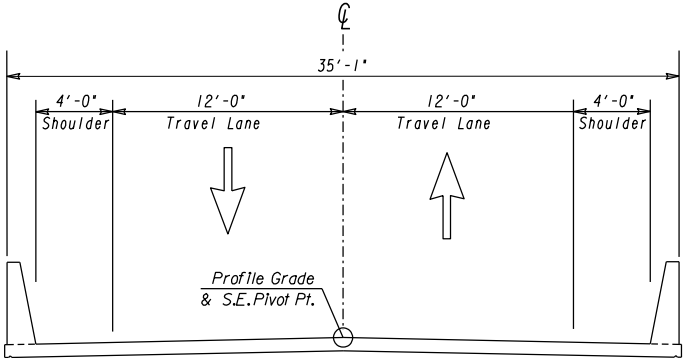
TYPICAL SECTION NO. 1
SR 257/EMPIRE CHESTER HWY



TYPICAL SECTION NO. 2
SR 257/EMPIRE CHESTER HWY



TYPICAL SECTION NO. 3
SR 257/EMPIRE CHESTER HWY



TYPICAL SECTION NO. 4
SR 257/EMPIRE CHESTER HWY

PAVEMENT MATERIAL SCHEDULE

A	RECYCLED ASPH. CONC. 9.5 MM SUPERPAVE. TYPE 11. GP 2 ONLY. INCL. BITUM MAT'L & H LIME, 135 LBS/SY
B	RECYCLED ASPH. CONC. 19 MM SUPERPAVE. GP 1 OR GP 2. INCL. BITUM MAT'L & H LIME, 220 LBS/SY
C	RECYCLED ASPH. CONC. 25 MM SUPERPAVE. GP 1 OR GP 2. INCL. BITUM MAT'L & H LIME, 330 LBS/SY
D	GRADED AGGREGATE BASE COURSE, 10"
F	MILL ASPH CONC PVMT, 1 1/4" DEPTH
G	INDENTATION CENTERLINE RUMBLE STRIPS-GROUND IN PLACE (CONTINUOUS)
H	INDENTATION EDGE LINE RUMBLE STRIPS-GROUND IN PLACE (SKIP)
P	PAVEMENT EDGE TREATMENT SEE GA DETAIL P-7 FOR DETAILS

REVISION DATES

TYPICAL SECTIONS
SR 257/EMPIRE CHESTER HWY

CHECKED:		DATE:		DRAWING No.:
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

Attachment 3

Detailed Cost Estimates

Project Cost Estimate

Processed on: 11/30/2021 7:43:53 AM

Concept Name:	0016513	Cost Estimate Name:	0016513_Pref
Concept Description:	Bridge Replacement on SR 257/Empire Chester HWY	Adhoc Pricing Total:	\$0.00
Spec Year:	21	Typical Section Total:	\$0.00
Item History:	BHP-ALL	Estimate Total:	\$3,474,513.91
Cost Estimate Phase:	2-DE		

ITEMS FOR CONCEPT NAME 0016513

0100 - Roadway

Line Number	Item	Quantity	Units	Price	Description	Amount
0010	150-1000	1	LS	75,000.00	TRAFFIC CONTROL - - 0016513	\$75,000.00
0020	153-1300	1	EA	88,129.34	FIELD ENGINEERS OFFICE TP 3	\$88,129.34
0015	156-0100	1	LS	6,500.00	GPS DATA COLLECTION AND SUBMITTAL	\$6,500.00
0005	210-0100	1	LS	300,000.00	GRADING COMPLETE - - 0016513	\$300,000.00
0085	310-1101	2298	TN	38.00	GR AGGR BASE CRS, INCL MATL	\$87,324.00
0070	402-3102	284	TN	130.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II, BLEND 1, INCL BITUM MATL & H LIME	\$36,920.00
0080	402-3121	650	TN	100.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	\$65,000.00
0075	402-3190	433	TN	110.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	\$47,630.00
0090	413-0750	326	GL	6.27	TACK COAT	\$2,045.52
0095	432-5010	267	SY	8.65	MILL ASPH CONC PVMT, VARIABLE DEPTH	\$2,310.05
0040	433-1000	267	SY	223.31	REINF CONC APPROACH SLAB	\$59,624.20
0030	456-2015	1	GLM	3,625.64	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (SKIP)	\$3,625.64
0035	456-2025	1	GLM	6,475.07	INDENTATION CENTERLINE RUMBLE STRIPS-GROUND IN PLACE (CONTINUOUS)	\$6,475.07
0025	632-0003	2	EA	6,637.21	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	\$13,274.42
0045	634-1200	10	EA	175.19	RIGHT OF WAY MARKERS	\$1,751.89
0055	641-1100	83	LF	84.15	GUARDRAIL, TP T	\$6,984.57

0100 - Roadway

Line Number	Item	Quantity	Units	Price	Description	Amount
0050	641-1200	810	LF	21.94	GUARDRAIL, TP W	\$17,770.01
0060	641-5001	2	EA	1,299.77	GUARDRAIL ANCHORAGE, TP 1	\$2,599.54
0065	641-5015	2	EA	2,740.01	GUARDRAIL TERMINAL, TP 12A, 31 IN, TANGENT, ENERGY-ABSORBING	\$5,480.02
0100 Total						\$828,444.27

0200 - Drainage

Line Number	Item	Quantity	Units	Price	Description	Amount
0285	441-0303	4	EA	2,433.42	CONC SPILLWAY, TP 3	\$9,733.67
0305	500-3200	1	CY	446.57	CLASS B CONCRETE	\$446.57
0255	550-1180	100	LF	75.20	STORM DRAIN PIPE, 18 IN, H 1-10	\$7,519.96
0280	550-2180	30	LF	58.40	SIDE DRAIN PIPE, 18 IN, H 1-10	\$1,751.98
0265	550-4118	2	EA	617.07	FLARED END SECTION 18 IN, SIDE DRAIN	\$1,234.13
0260	550-4218	2	EA	929.24	FLARED END SECTION 18 IN, STORM DRAIN	\$1,858.48
0270	603-2024	500	SY	80.81	STN DUMPED RIP RAP, TP 1, 24 IN	\$40,404.88
0275	603-7000	500	SY	5.04	PLASTIC FILTER FABRIC	\$2,520.38
0200 Total						\$65,470.05

0300 - Temporary Erosion Control

Line Number	Item	Quantity	Units	Price	Description	Amount
0140	163-0232	0.35	AC	600.00	TEMPORARY GRASSING	\$210.00
0150	163-0301	2	EA	2,157.38	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	\$4,314.76
0185	163-0520	250	LF	16.73	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	\$4,182.64
0195	163-0541	4	EA	1,170.37	CONSTRUCT AND REMOVE ROCK FILTER DAMS	\$4,681.48
0200	163-0550	2	EA	492.41	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	\$984.83
0170	165-0010	1250	LF	0.63	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	\$791.38
0175	165-0030	400	LF	0.83	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	\$333.36

0300 - Temporary Erosion Control

Line Number	Item	Quantity	Units	Price	Description	Amount
0155	165-0101	2	EA	616.12	MAINTENANCE OF CONSTRUCTION EXIT	\$1,232.23
0205	165-0105	2	EA	86.46	MAINTENANCE OF INLET SEDIMENT TRAP	\$172.92
0190	165-0110	4	EA	290.17	MAINTENANCE OF ROCK FILTER DAM	\$1,160.66
0160	165-0310	2	EA	457.85	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA (PER EACH)	\$915.70
0105	167-1000	4	EA	280.81	WATER QUALITY MONITORING AND SAMPLING	\$1,123.24
0110	167-1500	12	MO	638.31	WATER QUALITY INSPECTIONS	\$7,659.70
0180	171-0010	2500	LF	3.22	TEMPORARY SILT FENCE, TYPE A	\$8,060.08
0165	171-0030	800	LF	5.67	TEMPORARY SILT FENCE, TYPE C	\$4,534.88
0100	643-8200	250	LF	3.88	BARRIER FENCE (ORANGE), 4 FT	\$970.87
0300 Total						\$41,328.73

0400 - Permanent Erosion Control

Line Number	Item	Quantity	Units	Price	Description	Amount
0145	163-0240	23	TN	90.86	MULCH	\$2,089.82
0115	700-6910	0.70	AC	3,777.74	PERMANENT GRASSING	\$2,644.42
0120	700-7000	2.10	TN	125.00	AGRICULTURAL LIME	\$262.50
0125	700-8000	0.40	TN	1,146.01	FERTILIZER MIXED GRADE	\$458.40
0130	700-8100	35	LB	7.01	FERTILIZER NITROGEN CONTENT	\$245.40
0135	716-2000	2000	SY	2.42	EROSION CONTROL MATS, SLOPES	\$4,832.94
0400 Total						\$10,533.48

0600 - Signing

Line Number	Item	Quantity	Units	Price	Description	Amount
0250	610-6515	12	EA	88.00	REM HIGHWAY SIGN, STD	\$1,056.02
0210	636-1033	30	SF	24.56	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	\$736.68
0215	636-1036	50	SF	24.64	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	\$1,231.89

0600 - Signing

Line Number	Item	Quantity	Units	Price	Description	Amount
0220	636-2070	150	LF	12.50	GALV STEEL POSTS, TP 7	\$1,875.64
0600 Total						\$4,900.23

0610 - Pavement Marking

Line Number	Item	Quantity	Units	Price	Description	Amount
0240	653-3501	3200	GLF	0.54	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	\$1,733.41
0245	653-3502	1600	GLF	0.70	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	\$1,121.98
0225	654-1001	50	EA	9.08	RAISED PVMT MARKERS TP 1	\$453.94
0300	654-1002	40	EA	8.92	RAISED PVMT MARKERS TP 2	\$356.75
0230	657-1085	380	LF	9.64	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	\$3,662.70
0235	657-6085	760	LF	9.70	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-YELLOW), TP PB	\$7,370.37
0610 Total						\$14,699.15

0801 - Bridge 1

Line Number	Item	Quantity	Units	Price	Description	Amount
0290	540-1102	1	LS	376,488.00	REMOVAL OF EXISTING BR, BR NO - - 091-0030-0	\$376,488.00
0295	543-9000	1	LS	2,132,650.00	CONSTRUCTION OF BRIDGE COMPLETE - - 091-0030-0	\$2,132,650.00
0801 Total						\$2,509,138.00

TOTALS FOR CONCEPT NAME 0016513

ITEMS COST:	\$3,474,513.91
TYPICAL SECTION:	\$0.00
AD-HOC PRICING:	\$0.00
ESTIMATED COST:	\$3,474,513.91
CONTINGENCY PERCENT:	
ENGINEERING AND INSPECTION:	
ESTIMATED COST WITH CONTINGNECY AND E&I:	

CONFIDENTIALITY NOTICE: This document may contain confidential and/or privileged information. Any unauthorized duplication, disclosure,distribution/retransmission of taking of any action in reliance upon the material in this document is strictly forbidden.



Interoffice Memo

FILE

PI NUMBER	0016513	PROJECT DESCRIPTION	Bridge replacement on SR 257/Empire Chester Hwy over Gum Swamp Creek between Lister Cemetery Road and Frank Brown Road in Dodge County
OFFICE	Office of Program Delivery		
DATE	Tuesday, November 30, 2021		

From: Kimberly Nesbitt, State Program Delivery Administrator

To: Erik Rohde, P.E., State Project Review Engineer
via email Mailbox: CostEstimatesandUpdates@dot.ga.gov

Subject: REVISIONS TO PROGRAMMED COSTS

Project Manager:	Arlen Fisher
Management Let Date:	6/15/2024
Management Right of Way Date:	6/21/2023

Cost Estimate Review Iteration

Date of Submittal #1	11/30/2021
Date of Submittal #2	
Date of Submittal #3	

Summary of Programmed Costs and Proposed Revised Costs:

Estimate Type	Cost Estimate Amounts (T-Pro Without Inflation)	Last Estimate Date	Revised Cost Estimate
CONSTRUCTION	\$4,800,000.00		\$4,034,783.78
RIGHT OF WAY	\$250,000.00		\$107,000.00
UTILITIES	\$100,000.00		\$110,000.00

Explanation for Cost Change and Contingency Justification:

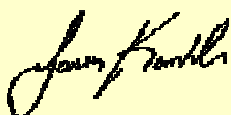
This is the initial concept cost estimate for SR 257/Empire Chester Hwy over Gum Swamp. Based on the project type, Bridge New Replacement, Policy 3A-9 Cost Estimating Purpose allows 10% to 15% for contingency. The percentage used in the estimate is 10%.

Attachments:

AASHTOware Cost Estimate and ROW Estimate Review Checklist

Interoffice Memo

Design Phase Leader Validation of Final QC/QA for Construction Cost Estimate Used In This Revision to Programmed Costs:

Consultant Company or GDOT Design Office:	Atkins North America Inc.
Printed Name:	Jason Kunkle, P.E.
Title:	Project Manager
Signature:	
Date:	11/30/2021

FOR PROJECTS WITH A LOCAL SPONSOR

If the project has a local sponsor, the project manager should ensure that the local authority completes the following validation indicating that it has reviewed the construction cost estimate and whether it is in concurrence with the construction costs presented.

Please select the appropriate validation below upon review of the cost estimate:

- ☐ I acknowledge that I have reviewed the project construction cost estimate and concur with the costs presented.
- ☐ I acknowledge that I have reviewed the project construction cost estimate but do not concur with the costs presented.

Please provide an explanation for non-concurrence.

Local Authority Name and Title:

Local Authority Signature:

Date:

[illegible]

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 6/21/2021
Revised: N/A

Project: SR 257/Empire Chester HWY Preferred
County: Dodge
PI: # 0016513

Description: Bridge replacement
Project Termini: SR 257/Empire Chester HWY

Existing ROW: Varies
Required ROW: Varies
Parcels: 4

Land and Improvements \$2,902.65

Proximity Damage \$0.00

Consequential Damage \$0.00

Cost to Cures \$0.00

Trade Fixtures \$0.00

Improvements \$0.00

Valuation Services \$16,250.00

Legal Services \$40,200.00

Relocation \$12,000.00

Demolition \$0.00

Administrative \$35,500.00

TOTAL ESTIMATED COSTS \$106,852.65

TOTAL ESTIMATED COSTS (ROUNDED) \$107,000.00

Prepared By: John Albrycht 6/21/2021
Print Name Signature Date

Cost Estimation Supervisor :
Print Name Signature Date

NOTE: Supervisor is only attesting that the estimate was completed using the correct information provided for the the project. The Supervisor is not attesting to property values or the accuracy of the market value estimations provided in this report. No Market Appreciation is included in this Preliminary Cost Estimate.

Comments:

NOTE: ROW Cost Estimate developed by design team.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: N/A Office: **Tennille**
County **Dodge** Date: **July 26, 2021**
P.I.# **0016513**
Description: ***SR 257 @ Gum Swamp Creek 4.7 Mi. SE of Chester***

FROM James L. Lindsey, District Utilities Manager

TO Arlen Fisher, Project Manager

SUBJECT **REVISED PRELIMINARY UTILITY COST ESTIMATE**

A review of utilities located on the above referenced project has been conducted based on the latest available plans. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>	<u>Reimbursable</u>	<u>Non-Reimbursable</u>	<u>Estimate Based on</u>
Progressive Rural Telephone	\$0.00	\$24,000.00	Site Visit / Available Drawings
Ocmulgee E.M.C.	\$110,000.00	\$0.00	Site Visit / Available Drawings
	\$0.00	\$0.00	Site Visit / Available Drawings
	\$0.00	\$0.00	Site Visit / Available Drawings
Total 100.00%	\$110,000.00	\$24,000.00	
Department Responsibility 100.00%	\$110,000.00	\$0.00	
Local Sponsor Responsibility 0.00%	\$0.00		PFA Dated N/A with N/A

** Indicates Potential Utility Aid Request from Local Gov't

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Jamie Lindsey at 478-553-3385 or Jimmy Hobby at 478-553-3380.

cc: Nicholas Fields, State Utilities Administrator
Marcela Coll, State Utilities Preconstruction Manager
Frantz Boileau, State Utilities Preconstruction Specialist
Todd Price, P.E., District Preconstruction Engineer
Clayton McCoy, Area Manager
File

Hannaford, John T

From: Ricks, Rebecca G
Sent: Thursday, July 15, 2021 11:35 AM
To: Hannaford, John T
Cc: Kunkle, Jason E
Subject: RE: 0016513

Follow Up Flag: Follow up
Flag Status: Flagged

John,
I've drafted the Eco portion of the ENVE file and saved it in the folder you indicated. These resources have been reviewed by GDOT without comment. They will be sent to the USACE for review, but there is very low likelihood that there will be a change. We will continue to keep you updated if there are any changes. Let me know if you have any questions when you take a look at it.

For Mitigation: There are approximately 1.13 acre of wetlands within proposed ROW. There are also portions of open waters within existing and proposed ROW, but mitigation is typically not required even if impacts occur to open waters, so they are not included in these cost estimates. For the purposes of estimating credits and costs, I assumed that this is a high quality wetland and that all of it will be filled (highest impact). This results in required mitigation of **1.13 Wetland credits or 9.04 Grandfathered credits**. Based on current credit cost estimates dated March 2021 and provided by GDOT, cost per Grandfathered credit for banks serving this area is \$16,000. Based on these assumptions, mitigation for wetland impacts would total **\$144,640**. I can reevaluate this as needed when we refine impacts, etc.

Generally at this stage, we don't calculate buffer mitigation costs. Let me know if you need me to estimate those costs as well. I'll be happy to crunch some numbers for you if needed.

Rebecca Ricks

e-mail: rebecca.ricks@atkinglobal.com
Direct: 678-247-2467 Office: 770-933-0280

From: Hannaford, John T <John.Hannaford@atkinglobal.com>
Sent: Wednesday, July 14, 2021 10:45 AM
To: Ricks, Rebecca G <Rebecca.Ricks@atkinglobal.com>
Cc: Kunkle, Jason E <Jason.Kunkle@atkinglobal.com>
Subject: 0016513

Rebecca,

[DGN](#)

Above is a link to the current layout for Gum Swamp. The dgn's entitled "PreferredAlt" are the chosen alternative. REQD ROW is also provided with the same title. Let me know if you have any questions or don't have access to this folder.

I believe we can throw the draft ENVE file in this location as well and once finalized move to the proper design folder.

Thanks!

Attachment 4
Concept Utility Report

Concept Utility Report

Project Number: N/A

District: Two

County: Dodge

Prepared by: James F. Hobby, Jr.

P.I. # 0016513

Date: July 26, 2021

Project Description: SR 257 @ Gum Swamp Creek 4.7 Mi SW of Chester

The information provided herein has been gathered from Georgia811 and/or field visits and serves as an estimate. Nothing contained in this report is to be used as a substitute for 1st Submission or SUE.

Are SUE services recommended? Not Recommended

Level: ☐A ☐B ☐C ☐D

Public Interest Determination (PID):

☐Automatic ☐Mandatory ☐Consideration ☒No Use ☐Exempt

Is a separate utility funding phase recommended? Yes

Potential Project (Schedule/Budget) Impacts: None Anticipated

Capital Improvement Projects (Utilities) Anticipated in the Area: None Known

Project Specific Recommendations for Avoidance/Mitigation: None

Right of Way Coordination: If needed, Permanent Easements should be purchased for the placement of Utilities

Environmental Coordination: Clear Right of Way

Additional Remarks: None

Utilities have facilities within the project limits.

Utilities have been identified using Georgia811 and/or field visits.

Facility Owner	Facility Owner Contact Email Address	Existing Facilities/ Appurtenances	General Description of Location	Facilities to Avoid <i>approx. limits</i>	Facilities Retention Recommended <i>approx. limits</i>	Comments
Progressive Rural Tel.	Larry Stevenson larry@prtc.co	Telecommunications	Buried w/aerial insert on east side of SR 257	All If Possible	N/A	25 Count Buried Fiber
Ocmulgee EMC	Brad Dowdy bdowdy@ocmulgeeemc.com	Power Distribution	Aerial on wood pole line east side of SR 257	All if Possible	N/A	5 Wood Poles

Note: To add additional rows, click the bottom right corner of the box above, then click the blue + that will appear. Please add additional rows prior to entering text.

Attachment 5
Traffic Memo



Interoffice Memo

FILE: Dodge County
P.I. # 0016513

DATE: July 7, 2021

FROM: Matt Markham, Deputy Director of Planning

TO: Kimberly Nesbitt, State Program Delivery Administrator
Attention: Arlen Fisher

SUBJECT: Reviewed Traffic Data Report for SR 257 over Gum Swamp Creek

Per request, we have reviewed the consultant's design traffic forecast for the above project. Based on the information furnished, we find the design traffic forecast to be satisfactory, and the design traffic forecasting task to be complete for the above project. The reviewed and approved design traffic forecast for the above project are as follows:

BRIDGE- ID 091-0030-0					
	2021 (Existing year)	2026 (Base Year)	2028 (Base Year +2)	2046 (Design Year)	2048 (Design Year +2)
AADT	1,275	1,350	1,375	1,675	1,725
DHV (AM/PM)	95/115	100/120	105/125	125/150	130/155
K% (AM/PM)	7.5%/ 9.0%	Same as Existing Year			
D% (AM/PM)	61.5%/ 56.0%				
24 HR. T% - S.U.	8.0%				
24 HR. T% - COMB.	9.5%				
24 HR. T% - TOTAL	17.5%				
T% - S.U. (AM/PM)	6.5%/ 7.0%				
T% - COMB. (AM/PM)	9.5%/ 7.0%				
T% - TOTAL (AM/PM)	16.0%/ 14.0%				

If you have any questions concerning this information, please contact Andre Washington at 404-631-1925.

Keith McCage
HNTB
Design Traffic Consultant to GDOT
404-946-5731

MM/KAM

Attachment 6
S I & A Report(s)

Georgia Department of Transportation Bridge Inventory Data Listing

Processed Date:May-21-2020 14:07 PM

Parameters: Bridge Serial Number

Bridge Serial Number: 091-0030-0

County: Dodge

SUFF. RATING: 55.8

Location & Geography

Structure ID: 091-0030-0

200 Bridge Information: 06

*6 Feature Intersected: GUM SWAMP CREEK

*7A Route Number Carried: SR00257

*7B Facility Carried: EMPIRE-CHESTER HWY

9 Location: 4.7 MI SW OF CHESTER

2 GDOT District: 4841200000 - District Two- Tennille

*91 Inspection Frequency: 24 Date: Nov-18-2019

92A Fracture Critical Insp. Freq: 0 Date: Feb-01-1901

92B Underwater Insp Freq: 60 Date: Feb-15-2017

92C Other Spc. Insp Freq: 0 Date: Feb-01-1901

*4 Place Code: 00000

*5A Inventory Route(O/U): 1

5B Route Type: 3 - State

5C Service Designation: 1- Mainline

5D Route Number: 00257

5E Directional Suffix: 0. Not applicable

*16 Latitude: 32 - 21.7590

*17 Longitude: 83 - 13.4478

98A Border Bridge: 98B: GA% 00

99 ID Number:

*100 STRAHNET: 0- The Feature is not a STRAHNET route.

12 Base Highway Network: Yes

13A LRS Inventory Route: 911025700

13B Sub Inventory Route: 0

101 Parallel Structure: N. No parallel structure exists

*102 Direction of Traffic: 2- Two Way

*264 Road Inventory Mile Post: 4.93

*208 Inspection Area: Area 10

*104 Highway System: 0- Inventory Route is not on the NHS

*26 Functional Classification: 7- Rural - Major Collector

*204A Federal Route Type: S - Secondary.

*204B Federal Route Number: 01622

105 Federal Lands Highway: 0. Not applicable

*110 Truck Route: 0- The Feature is not part of the National Network for Trucks

217 Benchmark Elevation: 0287.24

* Location ID No: 091-00257D-004.93N

218 Datum:

2- Mean Sea Level

*19 Bypass Length: 5

*20 Toll: 3- On a Free Road or Non-Highway

*21 Maintenance Responsibility: 01-State Highway Agency.

*22 Owner: 01-State Highway Agency.

*31 Design Load: 2- H 15

37 Historical Significance: 5- Not eligible for the National Register of Historic Places

205 Congressional District: 008

27 Year Constructed: 1958

106 Year Reconstructed: 0

33 Bridge Median: 0-None

34 Skew: 0

35 Structure Flared: No

38 Navigation Control: 0- Navigation is not controlled by an Agency

213 Special Steel Design: 0- Not applicable or other

267A Type Paint Super Structure: 2- Non-Lead Oil Alkyd System (System IV). Year : 0000

267B Type Paint Sub Structure: 2- Non-Lead Oil Alkyd System (System IV) Year : 1990

*42A Type of Service On: 1-Highway

*42B Type of Service Under: 5-Waterway

214A Movable Bridge: 0

214B Operator on Duty: 0

203 Type Bridge: G - Concrete filled steel shell (pile). N. Steel-Concrete O. Concrete O. Concrete

259 Pile Encasement: 1

*43A Structure Type Main material: 5-Prestressed Concrete

*43B Structure Type Main Type: 22- Channel Beam

45 Number of Main Spans: 14

44 Structure Type Approach: A:0- Other B: 0- Other

46 Number of Approach Spans: 0

226 Bridge Curve: A: Vertical: NoB: Horizontal: No

111 Pier Protection: N - Navigation Control item coded 0, or Feature not a waterway

107 Deck Structure Type: 2 - Precast Concrete Plank

108A Wearing Surface Type: 6. Bituminous

108B Membrane Type: 0. None

108C Deck Protection:

265 Underwater Inspection Area: 1

Signs & Attachments

225 Expansion Joint Type: 02- Open or sealed concrete joint (silicone sealant).

242 Deck Drains: 1- Open Scuppers.

243A Parapet Location: 0- None present.

243B Parapet Height: 0.00

243C Parapet Width: 0.00

238A Curb Height: 0.9

238B Curb Material: 1- Concrete.

239A Handrail Left: 2- Steel.

239B Handrail Right: 2- Steel.

*240 Median Barrier Rail: 0- None.

241A Bridge Median Height: 0

241B Bridge Median Width: 0

*230A Guardrail Location Direction Rear: 6- Both sides, approach and continuous.

*230B Guardrail Location Direction Fwd: 6- Both sides, approach and continuous.

*230C Guardrail Location Opposing Rear: 0- None.

*230D Guardrail Location Opposing Fwd: 0- None.

244 Approach Slab: 3- Forward and Rear.

224 Retaining Wall: 0- None.

233 Posted Speed Limit: 55

236 Warning Sign: Yes

234 Delineator: Yes

235 Hazard Boards: Yes

237A Gas: 00- Not Applicable

237B Water: 00- Not Applicable

237C Electric: 00- Not Applicable

237D Telephone: 00- Not Applicable

237E Sewer: 00- Not Applicable

247A Lighting: Street: No

247B Navigation: No

247C Aerial: No

*248 County Continuity No.: 00

36A Bridge Railings: 2- Inspected feature meets acceptable construction date standards.

36B Transition: 2- Inspected feature meets acceptable construction date standards.

36C Approach Guardrail: 2- Inspected feature meets acceptable construction date standards.

36D Approach Guardrail Ends: 2- Inspected feature meets acceptable construction date standards.

Georgia Department of Transportation Bridge Inventory Data Listing

Processed Date:May-21-2020 14:07:04 PM

Bridge Serial Number: 091-0030-0

County: Dodge

SUFF. RATING: 55.8

Programming Data

201 Project Number: 00000
202 Plans Available: 1- Plans at General Office.
249 Proposed Project Number: 00000
250A Reconstruction Approval Status: No
250B Route Approval Status: No
250C Approval Status Definition: 0
250D Approval Status Federal: 0
251Project Identification Number: 0016513
252 Contract Date: Feb-01-1901
260 Seismic Number: 00000
75A Type Work Proposed: 34- Widening with deck rehabilitation or replacement
75B Work Done by: 1- Work to be done by contract
94 Bridge Improvement Cost:(X\$1,000) \$1,477
95 Roadway Improvement Cost: (X\$1,000) \$148
96 Total Improvement Cost: (X\$1,000) \$2215
76 Improvement Length: 594'
97 Year Improvement Cost Based On: 2013
114 Future AADT: 1440
115 Future AADT Year: 2032

Hydraulic Data

113 Scour Critical: U.Unknown Foundation; not evaluated for scour.
216A Water Depth: 05.8
216B Bridge Height: 13
222 Slope Protection: 6
221A Spur Dike Rear:
221B Spur Dike Fwd:
219 Fender System: 0- None.
220 Dolphin:
223A Culvert Cover: 000
223B Culvert Type: 0- Not Applicable
223C Number of Barrels: 0
223D Barrel Width: 0
223E Barrel Height: 0
223F Culvert Length: 0
223G Culvert Apron: 0
39 Navigation Vertical Clearance: 0'
40 Navigation Horizontal Clearance: 0
116 Navigation Vertical Clear Closed: 0

Measurements:

*29 AADT: 960
*30 AADT Year: 2012
109 % Truck Traffic: 1
* 28A Lanes On: 2
*28B Lanes Under: 0
210A Tracks On: 00
210B Tracks Under: 0
* 48 Maximum Span Length: 27
* 49 Structure Length: 378
51 Bridge Roadway Width: 23.7'
52 Deck Width: 25'
* 47 Total Horizontal Clearance: 23.7'
50A Curb / Sidewalk Width Left: 0.4
50B Curb / Sidewalk Width Right: 0.4
32 Approach Rdwy. Width: 26'
*229 Approach Roadway
Rear Shoulder Left Width: 1 Right Width:1 Type: 2 - Asphalt.
Fwd Shoulder Left Width: 1 Right Width:1 Type: 2 - Asphalt.
Rear Pavement Width: 24 Type:2- Asphalt.
Forward Pavement Width: 24 Type:2- Asphalt.
Intersection Rear: 0 Forward:0

53 Minimum Vertical Clearance Over Rd: 99' 99"
54A Under Reference Feature: N- Feature not a highway or railroad.
54B Minimum Clearance Under: 0' 0"

*228 Minimum Vertical Clearance

228A Actual Odometer Direction: 99'99"
228B Actual Opposing Direction: 99'99"
228C Posted Odometer Direction: 00'00"
228D Posted Opposing Direction: 00'00"
55A Lateral Underclearance Reference: N- Feature not a highway or railroad.
55B Lateral Underclearance on Right: 0
56 Lateral Underclearance on Left: 0
10A Direction of Travel for Max Min: 0
10B Max Min Vertical Clearance: 99'99"
245A Deck Thickness Main: 4.0
245B Deck Thickness Approach: 0
246 Overlay Thickness: 1

Ratings and Posting

65 Inventory Rating Method: 1-Load Factor (LF)
63 Operating Rating Method: 1-Load Factor (LF)
66A Inventory Type: 2 - HS loading.
66B Inventory Rating: 24
64A Operating Type: 2 - HS loading.
64B Operating Rating: 41

231Calculated Loads

231A H-Modified: 21 No
231B Type3/Tandem: 22 No
231C Timber: 28 No
231D HS-Modified: 28 No
231E Type 3S2: 34 No
231F Piggyback: 40 No
261 H Inventory Rating: 16
262 H Operating Rating: 27
67 Structural Evaluation: 5

58 Deck Condition: 5 - Fair Condition
59 Superstructure Condition: 5 - Fair Condition
* 227 Collision Damage:
60A Substructure Condition: 5 - Fair Condition
60B Scour Condition: 5 - Fair Condition
60C Underwater Condition: 5 - Fair Condition

71 Waterway Adequacy: 8-Equal to present desirable criteria.

61 Channel Protection Cond.: 5-Somewhat better than minimum adequacy to tolerate being left in place as is.
68 Deck Geometry: 4
69 UnderClr. Horz/Vert: N
72 Approach Alignment: 8-No reduction of vehicle operating speed required.
62 Culvert: N - Not Applicable
70 Bridge Posting Required: 5. Equal to or above legal loads
41 Struct Open, Posted, CL: A. Open, no restriction
* 103 Temporary Structure: No

232 Posted Loads

232A H-Modified: 00
232B Type3/Tandem: 00
232C Timber: 00
232D HS-Modified: 00
232E Type 3s2: 00
232F Piggyback: 00
253 Notification Date: Feb-01-1901
258 Federal Notify Date: Feb-01-1901

Attachment 7

Concept Team Meeting Minutes

Meeting Minutes

Project:	MPOPD2001484 – PI 0016513 (SR 257 @ Gum Swamp Creek 4.7 Miles SW of Chester)		
Subject:	Concept Team Meeting		
Date and time:	September 15, 2021, 10:00 AM	Meeting no:	1
Meeting place:	Microsoft Teams Meeting	Minutes by:	JEK
Attendees:	<div> <div> Arlen Fisher – GDOT PM Jason Kunkle – Atkins PM John Hannaford – Atkins Rdwy Emily Powell – Atkins Rdwy Rebecca Ricks – Atkins Ecology Daniel Haddock – GDOT Arch Valerie Masutier – GDOT NEPA </div> <div> Rachel Shouse – Atkins NEPA Jonathan Brown – Atkins History Dan Burgundy – Atkins Bridge Jimmy Hobby – District 2 Utilities Todd Price – District 2 Preconstruction Ellen Wright – District 2 Planning </div> </div>		

1. Introductions and Project Overview

- a. The GDOT PM (Arlen Fisher) began the meeting with project introductions
- b. Jason followed with a brief project overview including the project location and project justification statement

2. Review of Concept Report

- a. Traffic
 - i. Traffic projections were prepared by Atkins and approved by Office of Planning on 7/7/21
- b. Utilities
 - i. Noted that two utilities present along the project corridor.
 - ii. SUE QL B is scoped to be performed. Jimmy Hobby with District 2 Utilities recommended no SUE on the project and utility owner mark-ups should be utilized. Jason noted that SUE work has already begun. Jimmy stated he will follow up with State Utilities Office to determine if SUE contract can be cancelled. {postscript: Aisha Moultrie with GDOT State Utilities Office concurred with Mr. Hobby's recommendation via e-mail dated 9/16/21 to cancel SUE work for this project and utilize utility owner mark-ups. Atkins will revise the Concept Report to reflect this decision.}
- c. Environmental
 - i. Noted anticipated environmental document is a PCE, however, if the project requires a transportation use from a nearby Section 4(f) resource then a Section 4(f) evaluation would be required.
 - ii. Two open waters and a wetland identified within the ESB
 - iii. Section 404 permit may be required if creek is affected by bridge replacement
 - iv. Two historically eligible properties identified within the ESB, one of which could potentially be impacted by this project
 - v. Two archaeological sites identified within the ESB
- d. Design and Structural
 - i. Proposed bridge is approximately 280 ft with 12' travel lanes and 4' shoulders

Meeting Minutes

- ii. Approach roadway typical section includes 12' travel lanes, 6' shoulder (4' paved)
- iii. Preferred alternative will utilize existing roadway centerline with off-site detour
- iv. Detour approval letters in favor of off-site detour were received by Dodge County School Board and Dodge County Commissioners Office. Numerous attempts to reach Dodge County EMS have been unsuccessful.
- v. PDOH will be held for this project
- vi. No design exceptions or variances anticipated
- vii. No bicycle, pedestrian, or transit warrants were met
- viii. Alternative 1 (permanent offset realignment) was evaluated but not selected due to greater impacts to ROW, environmental resources, construction costs and construction duration than the preferred alternative
- e. Miscellaneous
 - i. Project Let is June 2024
 - ii. Comment period on Concept Report is extended until 9/17/21

This document represents Atkins' interpretation of the meeting. Please contact the project manager if you have any questions.

Sincerely,



Jason Kunkle, P.E.
Atkins

Attachment 8

Detour Correspondence

Hannaford, John T

From: Price, Todd <tprice@dot.ga.gov>
Sent: Tuesday, November 23, 2021 1:39 PM
To: Kunkle, Jason E
Cc: Fisher, Arlen; Hannaford, John T
Subject: RE: PI 0016513 (Dodge County) - Request for Detour Coordination

Follow Up Flag: Follow up
Flag Status: Flagged

Jason,

I have reviewed the detour plan proposed for this project and concur with moving forward with its use. The District does not see any issues with the detour route that has been outlined.

Please let me know if you have further questions.

Thanks,

Todd Price, PE
District Preconstruction Engineer



District 2 – Office of Preconstruction
643 Highway 15 South
Tennille, GA, 31089
478.553.3405 office
478.232.3399 cell
478.240.3033 fax

From: Kunkle, Jason E <Jason.Kunkle@atkinsglobal.com>
Sent: Tuesday, November 16, 2021 5:16 PM
To: Price, Todd <tprice@dot.ga.gov>
Cc: Fisher, Arlen <AFisher@dot.ga.gov>; Hannaford, John T <John.Hannaford@atkinsglobal.com>
Subject: FW: PI 0016513 (Dodge County) - Request for Detour Coordination

Mr. Price,

We are hereby requesting the District's concurrence on the proposed detour route (attached) for PI 0016513. This is a bridge replacement project along SR 257 over Gum Swamp Creek in Dodge County. We have coordinated with the local entities as shown below and received responses in support of the proposed detour from Dodge County School Board and Dodge County Manager. Dodge County EMS was unresponsive after numerous attempts to solicit input. Therefore,

to keep the project on schedule we are moving forward with a proposed off-site detour as the preferred alternative. Please let us know by response to this e-mail if the District concurs with the proposed detour route.

Thanks,

Jason Kunkle, P.E.
Project Manager, Transportation Design

ATKINS

1600 RiverEdge Parkway, NW, Suite 700, Atlanta, Georgia 30328 | Tel: +1 (678) 247-2645 | Fax: +1 (770) 933-9946
Email: Jason.kunkle@atkinsglobal.com | Web: www.atkinsglobal.com/northamerica

From: Henry, Jeff <JHenry@dot.ga.gov>
Sent: Wednesday, August 12, 2020 10:34 PM
To: dodge.county@gema.ga.gov; dodgecomgr@gmail.com; slong@dodge.k12.ga.us
Cc: dodgeboc1@gmail.com; rogers@dodge.k12.ga.us; Reynolds, Corbett <creynolds@dot.ga.gov>; Price, Todd <tprice@dot.ga.gov>; Fisher, Arlen <AFisher@dot.ga.gov>; Kunkle, Jason E <Jason.Kunkle@atkinsglobal.com>; Hannaford, John T <John.Hannaford@atkinsglobal.com>; Goodwin, Robert <RGoodwin@dot.ga.gov>
Subject: PI 0016513 (Dodge County) - Request for Detour Coordination

PI 0016513 (Dodge County) – SR 257 @ Gum Swamp Creek 4.7 MI SW of Chester (bridge replacement project)

Mr. Stephens, Ms. Rogers, and Dr. Long:

I am reaching out to you regarding the above referenced bridge replacement project, which the Georgia DOT is undertaking in Dodge County. The project is located on State Route 257 (Empire-Chester Highway) over Gum Swamp Creek approximately 4.7 miles SW of the City of Chester. We would like to initiate early coordination with you regarding possible bridge closure and implementation of an offsite detour during construction. At this time, the start of construction is a few years out. I anticipate concept design of the project will start around January 2021 and roughly estimate construction will start in 2025. The estimated total duration of construction is 9 to 12 months.

Please review the attached detour coordination letter (addressed to you) and proposed detour route map and provide responses to the questions on the included survey form. You can email the form directly back to me. If you need more space for your answers than the form offers, feel free to expand upon your answers by attaching additional pages or in the body of your response email. Your feedback will be considered by the design team and incorporated into the concept design of the project.

If you have any questions or would like further information, please email or call me at the number listed in my signature.

Thanks very much for your assistance!

Sincerely,

Jeff Henry, PE
Consultant Project Manager



Georgia Department of Transportation
Bridge Replacement Project
Detour Impact Form for School Board
PI No. 0016513, Bridge Serial No. 091-0030-0, Dodge County

Using the attached detour map, please respond to the questions below. Please provide as much information as you feel is necessary. Please respond to all questions – use "N/A" or "Not-known" if no relevant information to question is available. If you need additional information or mapping for this project, please contact us.

1. How many School Buses cross the bridge per day?

Number of Buses 0 Number of Trips

2. Please rate the impact on service if the bridge were closed for up to a year?

☒ No Concerns ☐ Moderate Concerns ☐ Major Concerns

3. If concerns were identified on # 1, please specify what they are, and be as specific as possible (Conditions of detour route, location of students, new development expected, weight restrictions, etc.). *In order for the project to continue in the Preliminary Engineering phase, any concerns regarding impact on service, must be addressed by project staff. For example, if the box for "Major Concerns" is checked, a response of N/A would not be valid.*

4. Are there any future time periods or events that you know of where bridge closure would be of particular concern? Please note the event and any details you are familiar with.

At the present, we do not have any routes in that
area. This can change at any time in the future.

5. Is there anyone you feel we should contact specifically regarding this project? Please note their name, phone number, and reason we should contact them?

6. Are there any additional comments you have regarding the project? Are the road names referenced the names the locals would use?

Form Completed by (Name): AIDA R. J. ROGERS, Jr.
(Title): Director of Transportation and Technology
Date: 8-18-20



By checking this box, we support the bridge replacement utilizing an offsite detour.

Powell, Emily

From: Fisher, Arlen <AFisher@dot.ga.gov>
Sent: Thursday, January 7, 2021 4:04 PM
To: Kunkle, Jason E; Hannaford, John T
Cc: Henry, Jeff
Subject: FW: GDOT Project Hwy 257 Dodge County

Hi Jason/John,

Please find below the approval from Local BOC in Dodge county for the proposed bridge project. Let me know if you have any questions.

Thanks
Arlen

From: Conner Bearden <conner.bearden@dodgecounty-ga.com>
Sent: Thursday, January 7, 2021 3:48 PM
To: Fisher, Arlen <AFisher@dot.ga.gov>
Subject: GDOT Project Hwy 257 Dodge County

Mr. Fisher,

The Dodge County Commissioners Office can find no reason for GDOT not to proceed with the proposed bridge project on State HWY 257 in the Yonkers community. I have reviewed the proposed detour and am in agreement that this is the appropriate route. If my office can be of further assistance please let me know.

Sincerely,

--

Conner Bearden
County Manager
643 Pearl Bates Ave
Eastman, GA 31023
478-374-4361



Georgia is a state of natural beauty. And it's a state that spends millions each year cleaning up litter that not only mars that beauty, but also affects road safety, the environment and the economy. Do your part – don't litter. How can you play an active role in protecting the splendor of the Peach State? Find out at <http://keepgaclean.com/>.